

**TECHNICAL SPECIFICATIONS AND OTHER ALLIED REQUIREMENTS**

Sl. No.	Description of items	Quantity
PUR/48/ITG/PK/E/2021-2022		
1	Supply of 3D LIDAR (Detailed specification as per Annexure-I)	01

**1. INSTALLATION, COMMISSIONING AND TRAINING**

1.1. Not Required

**2. WARRANTY**

2.1. 01 Year or more from the date of delivery and acceptance of the material.

**3. BID SECURING DECLARATION**

3.1. A Bid Security Declaration is to be furnished by Bidder in the prescribed format duly signed by the authorised person of Bidder. Offer received without the Bid Security Declaration shall be rejected.

## Annexure - I

### Desired Specifications for 3D LIDAR

Laser Product	Safe for eye
Ports & Connectivity	USB, UDP and TCP/IP
Vertical channels	32 or more
Rotation rate/FPS	10 Hz to 20 Hz or wider (user programmable/selectable options)
Angular Resolution	Horizontal: 0.1° – 0.4° or wider (user programmable options) Vertical: 0.2° – 1.41°
Angular accuracy	Horizontal: $\pm 0.01^\circ$ or better Vertical: $\pm 0.01^\circ$ or better
Range Accuracy	Max 10 cm in worst cases Max 3 cm in best case
Horizontal FOV	360°
Vertical FOV	40° or more
Min Range	0.3 m or less
Max Range	20 m or more
Range Resolution	0.3 cm or less
Max Weight (without accessories)	1000 g
Dimension (without accessories)	Compact, suitable to install in space (5in X 5in X 5in)
Warranty (Year)	1 year or more
Operating Temperature	-20 °C to +55 °C
Operating Voltage	24 V/12 V
Software Supported	ROS, C++.
Ingress Protection	IP 66 / IP 66K or better

*Anil Kumar*  
10/05/2024.  
Signature of Indenter